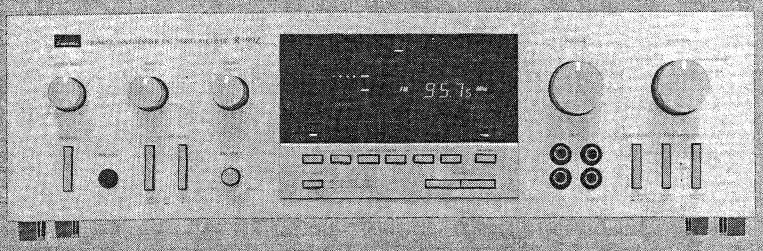
115

SERVICE MANUAL

QUARTZ SYNTHESIZER DC SERVO RECEIVER

SANSUI R-99Z



Sansui

SANSUI ELECTRIC CO., LTD.

• SPECIFICATIONS

Audio section

Power output
Min. RMS, both channels driven, from 30 to 20,000 Hz with no more than 0.05 % total harmonic distortion.
30 watts per channel into 8 ohms
Total harmonic distortion
. . . . . less than 0.05 % at or below rated min. RMS power output
Frequency response (at 1 watt)
. . . . . 10 to 60,000 Hz, +1 dB, –3 dB
Input sensitivity and impedance (at 1 kHz)
PHONO . . . . . 2.5 mV/47 kilohms
AUX, TAPE PLAY . 150 mV/47 kilohms
Output level (at 1 kHz)
TAPE REC . . . . . 150 mV
Hum and noise (short-circuit, A-network)
PHONO . . . . . 73 dB
AUX, TAPE PLAY . 90 dB

FM section

Tuning range . . . . . 87.5 to 108 MHz
Usable sensitivity
Mono IHF . . . . . 10.8 dBf (1.9 μV)
DIN . . . . . 1.0 μV
50 dB quieting sensitivity
Stereo . . . . . 37 dBf
Signal to noise ratio (at 65 dBf)
Mono . . . . . 72 dB
Stereo . . . . . 68 dB
Distortion (at 65 dBf)
Mono . . . . . less than 0.25 % at 1,000 Hz
Stereo . . . . . less than 0.35 % at 1,000 Hz
Stereo separation . . . . 40 dB at 1,000 Hz
Antenna input impedance
. . . . . 300 ohms balanced
75 ohms unbalanced

AM section

Tuning range . . . . . 520 to 1,610 kHz (10 kHz)
522 to 1,602 kHz (9 kHz)
Usable sensitivity (bar antenna)
. . . . . 50 dB/m (300 μV/m)
Signal to noise ratio . . 45 dB

Others

Power voltage . . . . . 120/220/240 V (50/60 Hz)
For U.S.A. and Canada
. . . . . 120 V (60 Hz)
Power consumption . . . 150 watts 190 VA Rated
210 watts Maximum
Dimensions . . . . . 430 mm (16-15/16") W
132 mm (5-1-/4") H
254 mm (10") D
Weight . . . . . 5.6 kg (12.3 lbs.) net
6.4 kg (14.1 lbs.) packed

* Design and specifications subject to change without notice for improvements.

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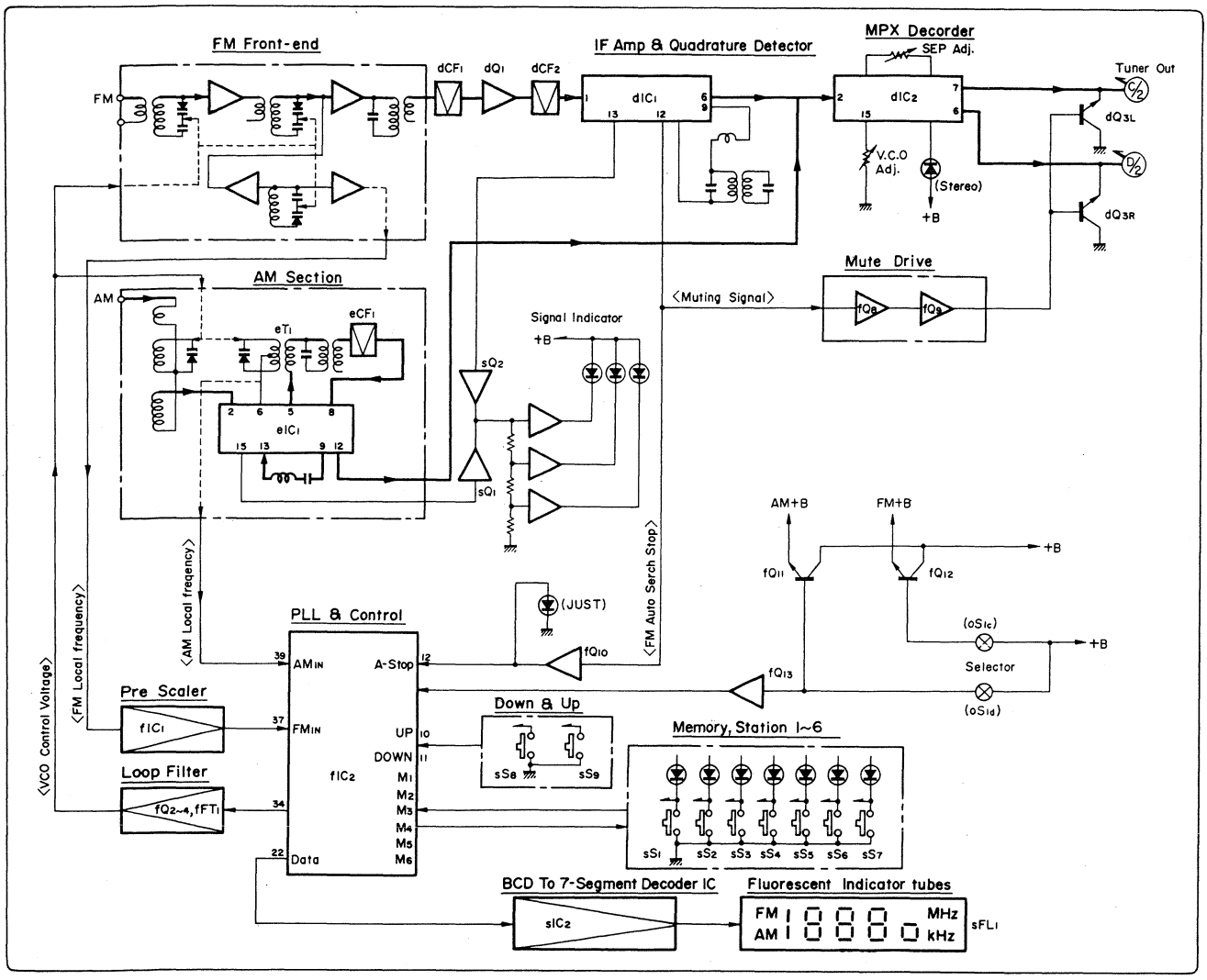
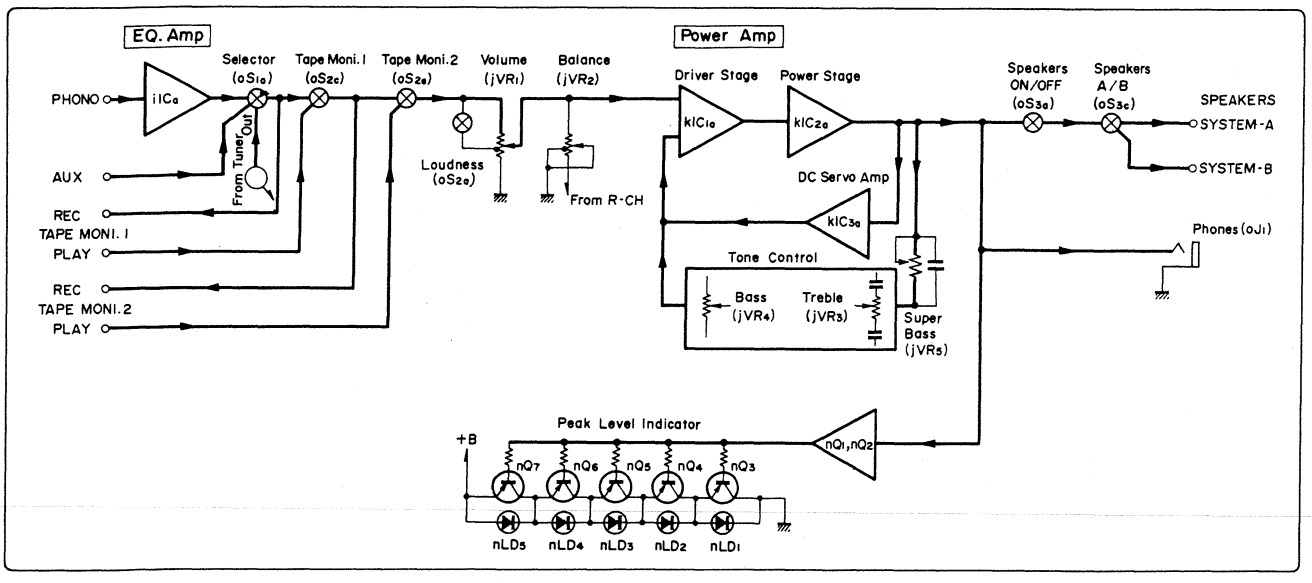
1. BLOCK DIAGRAM

1-1. Tuner Section



1-2. Audio Section

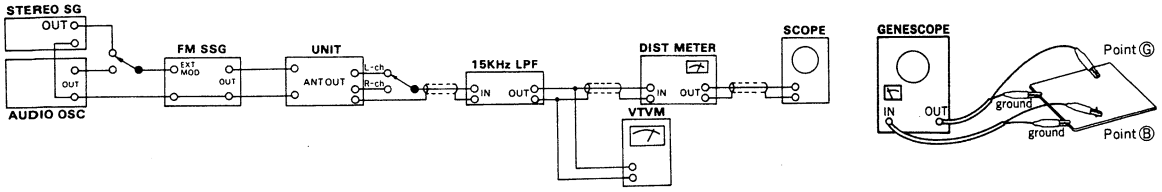


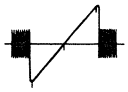
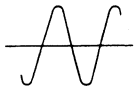
2. ADJUSTMENTS

2-1. FM Adjustment (See Top View on Page 10)

(1) FM IF, RF Adjustment and Dial Calibration

Note: 1. Selector . . . . . FM
2. FM Mode . . . . MONO



STEP	SUBJECT		FEED SIGNAL FROM	FEED SIGNAL TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	IF Coil Adj.		98MHz ANT Input 20dBf (14.8dB), 1kHz (100% MOD.), FM SSG	ANT terminal 300Ω	Between Point Ⓐ (dR16) & Earth DC Volt Meter	T1 (Front-end)	Max. DC Volt (about 0.7V)	
2.	Discriminator Coil Adj. In case of using Genescope	1	No Input	–	Between Point Ⓗ & Point Ⓘ (dR10) DC Volt Meter	dT1	DC 0V ±0.1V	
		2	Output 80dB, Genescope	Point Ⓖ (dR34)	Between Point Ⓑ (dR19) & Earth	dT1	Steep linearlty of S curve. Make symmetrical S curve.	
	Discriminator Coil Adj. In case of using Dist meter	1	98MHz ANT Input 65dBf (59.8dB), 1kHz (100% MOD.), FM SSG	ANT terminal 300Ω	Between Point Ⓗ & Point Ⓘ (dR10) DC Volt Meter	dT1	DC 0V ±0.1V	• Repeat procedures as stated in subject 1 & 2. • Since the T1 has already adjusted, perform only a fine adjustment in this procedure.
		2	Same as above	Same as above	REC OUT L-CH or R-CH VTVM & SCOPE	dT1 T1	Min. THD	
3.	88MHz Dial Calibration	1	No Input	–	Display Indication	Tuning Knob	88MHz	• Repeat procedures as stated in step 3 & 4.
		2	No Input	–	Between Point Ⓒ (eR12) & Earth DC Volt Meter	L8 (Front-end)	4V ±0.1V	
4.	108MHz Dial Calibration	1	No Input	–	Display Indication	Tuning Knob	108MHz	
		2	No Input	–	Between Point Ⓒ (eR12) & Earth DC Volt Meter	TC3 (Front-end)	19V ±0.1V	
5.	98MHz RF Adj.		98MHz ANT Input Minimum value with sine wave 1000Hz (100% MOD.), FM SSG	ANT terminal 300Ω	REC OUT L-CH or R-CH VTVM & SCOPE	TC1, TC2 (Front-end)	Max. Output	

•Abbreviations

Equipment
AM FM Generator Oscilloscope . . . . . Genescope
AM Standard Signal Generator . . . . . AM SSG
FM Standard Signal Generator . . . . . FM SSG
FM Stereo Generator . . . . . Stereo SG
Oscilloscope . . . . . Scope
Audio Oscillator . . . . . Audio Osc.
Distortion Meter . . . . . Dist. Meter

Others
Antenna . . . . . ANT.
Modulation . . . . . MOD.
Total Harmonic Distortion . . . . . T.H.D.

(2) FM STEREO Adjustment

Note: 1. FM Mode . . . . AUTO

STEP	SUBJECT	FEED SIGNAL FROM	FEED SIGNAL TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	PLL VCO Adj.	98MHz ANT Input 65dBf (59.8dB), FM SSG, Pilot 19kHz (9% MOD.), R or L MODE 1kHz + Pilot (100% MOD.), STEREO SG	ANT terminal 300Ω	Stereo indicator	dVR3	Light indicator	Adjust the VR within center of lighting level
	PLL VCO Adj. In case of using Freq.	98MHz ANT Input 65dBf (59.8dB), FM SSG, No MOD.	Same as above	Between Point Ⓕ (dR24) & Earth Freq. counter	dVR3	19kHz ±50Hz	
2.	Separation Adj.	98MHz ANT Input 65dBf (59.8dB), FM SSG, Pilot 19kHz (9% MOD.), L MODE 1kHz + Pilot (100% MOD.), STEREO SG.	Same as above	REC OUT L-CH VTVM & SCOPE	—	Read the indi cation on VTVM	Confirm R → L-CH
				REC OUT R-CH VTVM & SCOPE	dVR2	−40dB from the indication above.	
3.	Muting level Adj.	98MHz ANT Input 15dBf (9.8dB), FM SSG, Pilot 19kHz (9% MOD.), L or R MODE 1kHz + Pilot (100% MOD:), STEREO SG.	Same as above	Stereo indicator or REC OUT L-CH or R-CH VTVM & SCOPE	dVR1	Stereo indicator turns ON or Output Signal comes out	

♦ Selection of Intermediate Frequencies (FM)

* When the central frequency (shown by a color) of the ceramic filter is changed, the following connection must be made by using jumper wires.

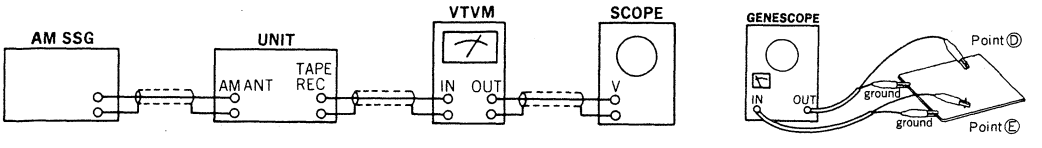
* Unity the color marks of the FM ceramic filters (dCF1, dCF2) on the F-3554 with the same color.

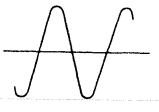
Colouring	Intermediate frequency	Connecting Position of Jumper wire on F-3554	
		JWx	JWy
BLACK	10.650 MHz	O	X
RED	10.700 MHz	O	O
WHITE	10.750 MHz	X	O

2-2. AM Adjustment (See Top View on Page 10)

(1) AM IF Adjustment and Dial Calibration

Note: 1. Selector . . . . . AM



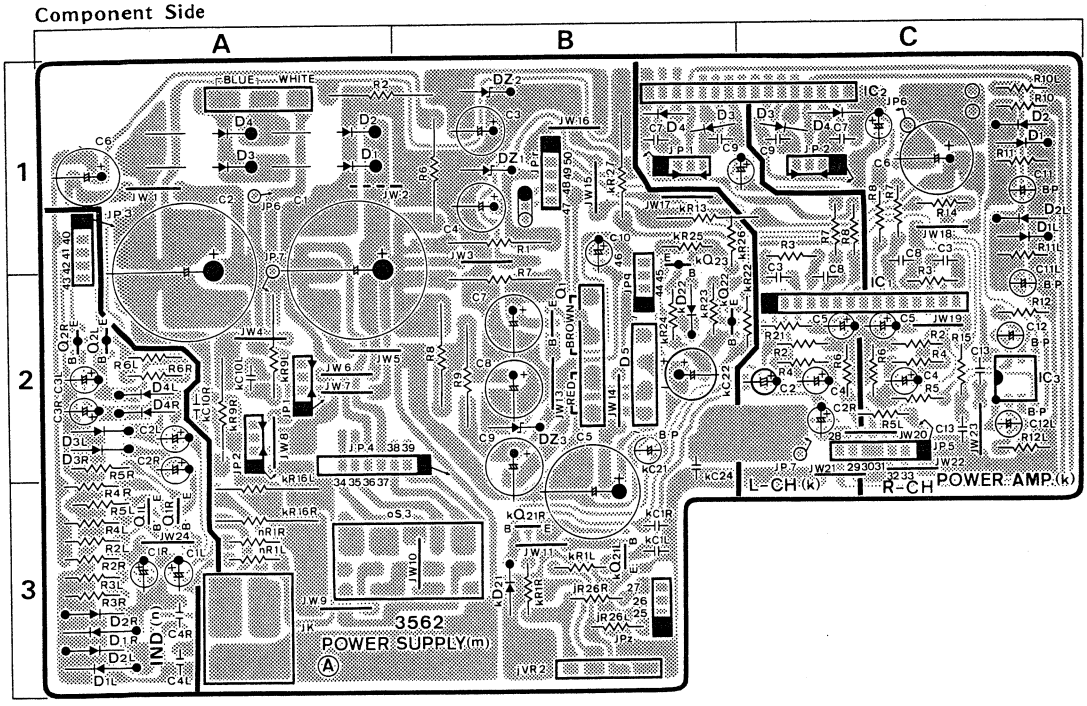
STEP	SUBJECT		FEED SIGNAL FROM	FEED SIGNAL TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	IF Coil Adj.		Output 60dB, Genescope	Point Ⓓ (eR2)	Between Point Ⓔ (e9) & Earth	eCF1, eL2	Max. Waveform	
2.	531kHz Dial Calibration	1	No Input	—	Display Indication	Tuning Knob	531kHz	
		2	No Input	—	Between Point Ⓒ (eR12) & Earth DC Volt Meter	eL1	1.6V ±0.1V	
3.	1602kHz Dial Calibration	1	No Input	—	Display Indication	Tuning Knob	1602kHz	
		2	No Input	—	Between Point Ⓒ (eR12) & Earth DC Volt Meter	eTC2	22.5V ±0.1V	
4.	603kHz RF Adj.		603kHz ANT Input 30dB, 400Hz (30% MOD.), AM SSG	ANT terminal	REC-OUT L-CH or R-CH VTVM & SCOPE	Bar Antenna	Max. Output	
5.	1404kHz RF Adj.		1404kHz ANT Input 30dB, 400Hz (30% MOD.), AM SSG	Same as above	Same as above	eTC1	Max. Output	

3. PARTS LOCATION & PARTS LIST

●Since some of capacitors and resistors are omitted from parts lists in this Service Manual, refer to the Common Parts List for capacitors & resistors, which was appended previously to Sansui Manual.

3-1. F-3562 Power Amp. & Power Supply Circuit Board (Stock No. 00648201)

Component Side



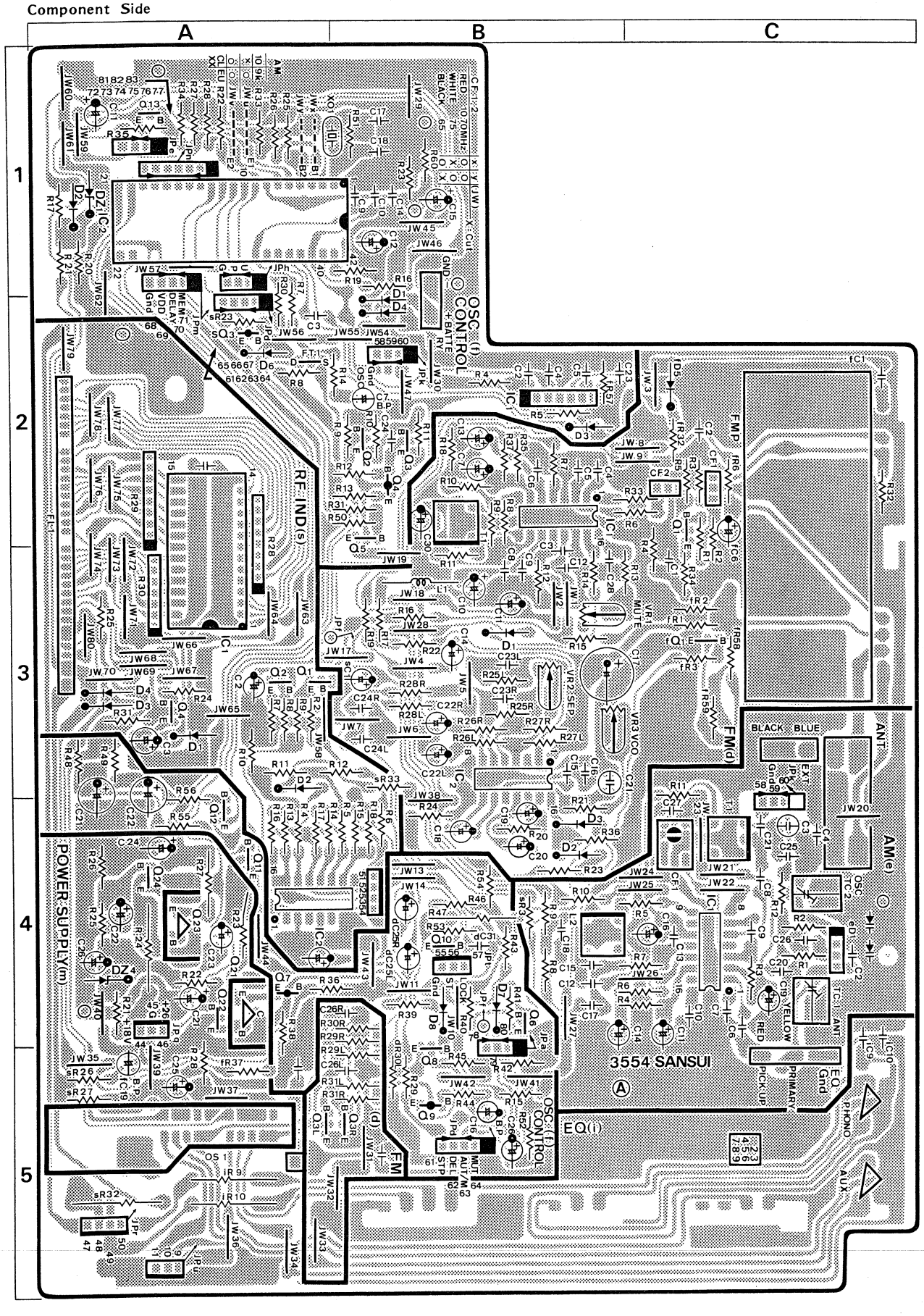
Parts List

Parts No.	Stock No.	Description
jVR2	46097411	250kΩ Volume, balance
●Transistor		
kQ21	03059501, 2	2SC945-Q, P
	07194800, 1	2SC1815-Y, GR
	03068301, 2	2SC2320-E, F
kQ22	07194700, 1	2SA1015-Y, GR
	07197001, 2	2SA733A-Q, P
	03012700, 1	2SA999-E, F
kQ23	07194700, 1	2SA1015-Y, GR
	07197001, 2	2SA733A-Q, P
	03012700, 1	2SA999-E, F
●IC		
kIC1	46051100	STK-3042
kIC2	46051200	STK-2139
kIC3	03607700	NJM4558D
●Diode		
kD1	03111600	1S2473D
	03111800	1S1588
kD2	03111600	1S2473D
	03111800	1S1588
kD21	03111600	1S2473D
	03111800	1S1588
kD22	03111600	1S2473D
	03111800	1S1588
kC4	00306800	1μF 50V E.B.
kC11	00306600	10μF 50V E.B.
kC12	00307500	4.7μF 50V E.B.
kC21	00306800	1μF 50V E.B.
●Transistor		
mQ1	03085201, 2	2SD438-E, F
	07206900, 1	2SC2001-M, L
●Diode		
mD1	46096300	30DL2
	07224400	UF21

Parts No.	Stock No.	Description
mD2	46096300	30DL2
	07224400	UF21
mD3	46096300	30DL2
	07224400	UF21
mD4	46096300	30DL2
	07224400	UF21
mD5	03117000	RB-152
●Zener Diode		
mDZ1	03164500	RD18E-B
mDZ2	03164500	RD18E-B
mDZ3	03165300	RD27E-B
mR1	00192000	820Ω 2W N.I.R.
mR2	00192000	820Ω 2W N.I.R.
mR6	00185700	1kΩ 2W N.I.R.
mC1	00316000	4700μF 50V
mC2	00316000	4700μF 50V
●Transistor		
nQ1	07299701, 2	2SC2603-E, F
	03059501, 2	2SC945-Q, P
	03068301, 2	2SC2320-E, F
nQ2	07299601, 2	2SA1115-E, F
	07197001, 2	2SA733A-Q, P
	03012700, 1	2SA999-E, F
●Diode		
nD1	03103300	1N60-0
nD2	03111600	1S2473D
	03111800	1S1588
nD3	03111600	1S2473D
	03111800	1S1588
nD4	03111600	1S2473D
	03111800	1S1588
oS3	46097000, 1	Push Switch, speaker
oJ1	46096600	Phone Jack

3-2. F-3554 Tuner Circuit Board (Stock No. 00647401)

Component Side



Parts List

Parts No.	Stock No.	Description
	07263200	FM Frontend FSA-020
●Transistor		
dQ1	03069500, 1	2SC668-C, D
	03063401	2SC1674-L
	03069502	2SC668-E1
	46027300	2SC2786-M
dQ3	03059501, 2	2SC945-Q, P
	07194800, 1	2SC1815-Y, GR
	03068301, 2	2SC2320-E, F
●IC		
dIC1	46052600	μPC1208
dIC2	03609900	μPC1161C
●Diode		
dD2	03117600	1S2473D
	46086000	1S1588
	46092700	US1035
dD3	03117600	1S2473D
	46086000	1S1588
	46092700	US1035
dCF1	07259700	Ceramic Filter
dCF2	07259700	Ceramic Filter
dL1	07250300	Peaking Coil 2.2μH
dT1	46077600	FM IF Coil
dVR1	07241500	50kΩ (B) Volume, muting level adj.
dVR2	07241700	200kΩ (B) Volume, sep. adj.
dVR3	07218000	6.8kΩ (B) Volume, v.c.o. adj.
●IC		
eIC1	03603900	HA1197
●Varactor Diode		
eD1	07197200	KV1226
eTC1	12301000	15P Trimmer Capacitor
eTC2	12301000	15P Trimmer Capacitor
eCF1	46096200	Ceramic Filter SFL450G
eT1	07198700	AM RF Coil
eL2	42306200	AM IF Coil
●Transistor		
fQ1	03059501, 2	2SC945-Q, P
	07194800, 1	2SC1815-Y, GR
	03068301, 2	2SC2320-E, F
fQ2	03059501, 2	2SC945-Q, P
	07194800, 1	2SC1815-Y, GR
	03068301, 2	2SC2320-E, F
fQ3	03059501, 2	2SC945-Q, P
	07194800, 1	2SC1815-Y, GR
	03068301, 2	2SC2320-E, F
fQ4	07197001, 2	2SA733A-Q, P
	07194700, 1	2SA1015-Y, GR
	03012700, 1	2SA999-E, F
fQ5	03059501, 2	2SC945-Q, P
	46118800, 1	2SC2878 (A), (B)
fQ6	03059501, 2	2SC945-Q, P
	07194800, 1	2SC1815-Y, GR
	03068301, 2	2SC2320-E, F

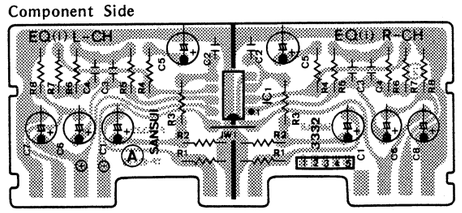
Parts No.	Stock No.	Description
fQ7	07197001, 2	2SA733A-Q, P
	07194700, 1	2SA1015-Y, GR
	03012700, 1	2SA999-E, F
fQ8	03059501, 2	2SC945-Q, P
	07194800, 1	2SC1815-Y, GR
	03068301, 2	2SC2320-E, F
fQ9	07197001, 2	2SA733A-Q, P
	07194700, 1	2SA1015-Y, GR
	03012700, 1	2SA999-E, F
fQ10	03059501, 2	2SC945-Q, P
	03068301, 2	2SC2320-E, F
	46118800, 1	2SC2878 (A), (B)
fQ11	07194800, 1	2SC1815-Y, GR
	07206900, 1	2SC2001-M, L
	03085201, 2	2SD438-E, F
fQ12	07194800, 1	2SC1815-Y, GR
	07206900	2SC2001-M, L
	03085201, 2	2SD438-E, F
fQ13	03059501, 2	2SC945-Q, P
	07194800, 1	2SC1815-Y, GR
	03068301, 2	2SC2320-E, F
●FET		
fFT1	03703001, 2	2SK117-Y, GR
	03703401, 2	2SK163-K2, L1
●IC		
fIC1	07225000	TD6104P
fIC2	07225200	TC9140P
fXO1	07237700	7.2MHz Xtal
●Diode		
fD1	03117600	1S2473D
	46086000	1S1588
	46092700	US1035
fD2	03117600	1S2473D
	46086000	1S1588
	46092700	US1035
fD3	03117600	1S2473D
	46086000	1S1588
	46092700	US1035
fD4	03117600	1S2473D
	46086000	1S1588
	46092700	US1035
fD5	03117600	1S2473D
	46086000	1S1588
	46092700	US1035
fD6	03117600	1S2473D
	46086000	1S1588
	46092700	US1035
fD7	03117600	1S2473D
	46086000	1S1588
	46092700	US1035
fD8	03117600	1S2473D
	46086000	1S1588
	46092700	US1035
●Zener Diode		
fDZ1	03183400	RD5.1E-B
fR47	00184400	680Ω 1W N.I.R.
fC7	08451700	1.0μF 50V E.B.
fC16	08451900	3.3μF 50V E.B.
fC19	08450900	4.7μF 16V E.B.

Parts No.	Stock No.	Description
●Transistor		
mQ21	03083901, 2	2SD313AL-D, E
mQ22	07194800, 1	2SC1815-Y, GR
	03068301, 2	2SC2320-E, F
	03059501, 2	2SC945-Q, P
mQ23	03083901, 2	2SD313AL-D, E
mQ24	07194800, 1	2SC1815-Y, GR
	03068301, 2	2SC2320-E, F
	03059501, 2	2SC945-Q, P
●Zener Diode		
mDZ4	03179000	RD13E-B
mR24	00187800	220Ω 2W N.I.R.
oS1	46096700	Rotary Slide Switch, selector
	07249100	4P Terminal Board, aux, phono
	22902600	4P Terminal Board, antenna
●Transistor		
sQ1	03059501, 2	2SC945-Q, P
	07194800, 1	2SC1815-Y, GR
	03068301, 2	2SC2320-E, F
sQ2	03059501, 2	2SC945-Q, P
	07194800, 1	2SC1815-Y, GR
	03068301, 2	2SC2320-E, F
sQ3	07197001, 2	2SA733A-Q, P
	07194700, 1	2SA1015-Y, GR
	03012700, 1	2SA999-E, F

Parts No.	Stock No.	Description
sQ4	03059501, 2	2SC945-Q, P
	07194800, 1	2SC1815-Y, GR
	03068301, 2	2SC2320-E, F
●IC		
sIC1	07225100	TD6301P
sIC2	03611900	MSM4050RS
●Diode		
sD1	03117600	1S2473D
	46086000	1S1588
	46092700	US1035
sD2	03117600	1S2473D
	46086000	1S1588
	46092700	US1035
sD3	03117600	1S2473D
	46086000	1S1588
	46092700	US1035
sD4	03117600	1S2473D
	46086000	1S1588
	46092700	US1035
sFL1	07235300	FIP7B8S
sR28	46045900	Resistor Network 8-Element
sR29	46045900	Resistor Network 8-Element
sR30	46042200	Resistor Network 6-Element
sR32	00183700	56Ω 1W N.I.R.

3-3. F-3332 Equalizer Circuit Board (Stock No. 00649501)

Component Side

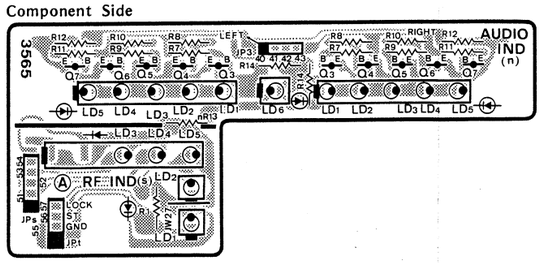


Parts List

Parts No.	Stock No.	Description
●IC		
iIC1	07208900	NJM4558D-X
iC1	46034800	2.2μF 50V E.L.

3-4. F-3565 RF Signal & Peak Power Indicator Circuit Board (Stock No. 00648501)

Component Side



Parts List

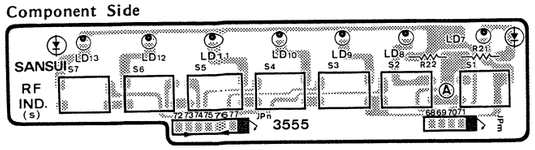
Parts No.	Stock No.	Description
●Transistor		
nQ3	07299601, 2	2SA1115-E, F
	07197001, 2	2SA733A-Q, P
nQ4	07299601, 2	2SA1115-E, F
	07197001, 2	2SA733A-Q, P
nQ5	07299601, 2	2SA1115-E, F
	07197001, 2	2SA733A-Q, P

Parts No.	Stock No.	Description
nQ6	07299601, 2	2SA1115-E, F
	07197001, 2	2SA733A-Q, P
nQ7	07299601, 2	2SA1115-E, F
	07197001, 2	2SA733A-Q, P
nLD1	03193700	LED SEL1110S
nLD2	03193700	LED SEL1110S
nLD3	03193700	LED SEL1110S
nLD4	03193700	LED SEL1110S
nLD5	03193700	LED SEL1110S
nLD6	03193700	LED SEL1110S
	07581900	1P LED Holder
	07581600	5 Pin LED Holder
sLD1	03193700	LED SEL1110S
sLD2	07251600	LED SEL1910A
sLD3	07246200	LED SEL1710K
sLD4	07246200	LED SEL1710K
sLD5	07246200	LED SEL1710K

● Note: The circuit board, F-3555, F-3556, F-3557, F-3558, F-3559, F-3560, F-3561, F-3563, F-3564, F-3566 & F-3334 are not supplied as the assembled. However, the individual parts on the circuit board are provided by orders.

3-5. F-3555 Station, Memory Indicator Circuit Board

Component Side

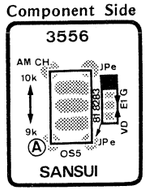


Parts List

Parts No.	Stock No.	Description
	07581900	1P LED Holder
sLD7	07251600	LED SEL1910A
sLD8	03193700	LED SEL1110S
sLD9	03193700	LED SEL1110S
sLD10	03193700	LED SEL1110S
sLD11	03193700	LED SEL1110S
sLD12	03193700	LED SEL1110S
sLD13	03193700	LED SEL1110S
sS1	07246100	Push Switch, memory
sS2	07246100	Push Switch, preset station 6
sS3	07246100	Push Switch, preset station 5
sS4	07246100	Push Switch, preset station 4
sS5	07246100	Push Switch, preset station 3
sS6	07246100	Push Switch, preset station 2
sS7	07246100	Push Switch, preset station 1

3-6. F-3556 AM-CH 9 kHz/10 kHz Selection Switch Circuit Board (XX Model Only)

Component Side

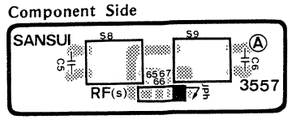


Parts List

Parts No.	Stock No.	Description
oS5	11102800	Slide Switch, AM-CH

3-7. F-3557 Tuning UP/DOWN Switch Circuit Board

Component Side

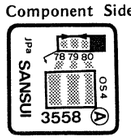


Parts List

Parts No.	Stock No.	Description
oS8	07246100	Push Switch, tuning down
oS9	07246100	Push Switch, tuning up

3-8. F-3558 FM/Mode Switch Circuit Board

Component Side

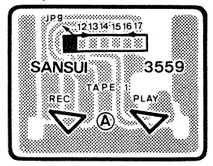


Parts List

Parts No.	Stock No.	Description
oS4	46096900, 1	Push Switch, FM/mode

3-9. F-3559 Tape Monitor Terminal 1 Circuit Board

Component Side

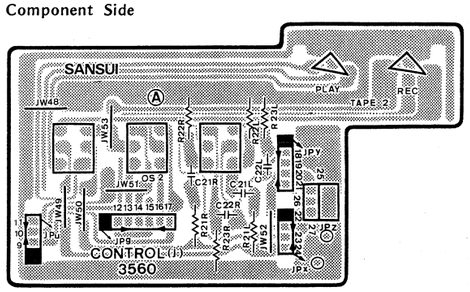


Parts List

Parts No.	Stock No.	Description
	07249100	4P Terminal, tape monitor 1

3-10. F-3560 Tape Monitor Switch Circuit Board

Component Side

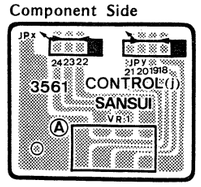


Parts List

Parts No.	Stock No.	Description
oS2	46097100, 1	Push Switch, tape monitor
	46096800	4P Terminal, tape monitor 2

3-11. F-3561 Volume Circuit Board

Component Side

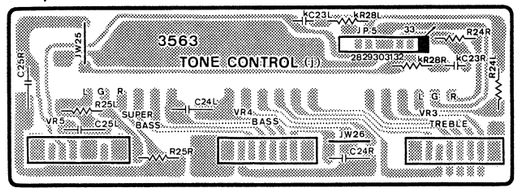


Parts List

Parts No.	Stock No.	Description
jVR1	46035601	150kΩ (B) Volume

3-12. F-3563 Treble & Bass Volume Circuit Board

Component Side

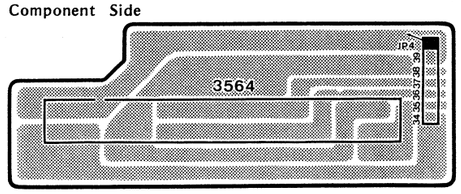


Parts List

Parts No.	Stock No.	Description
jVR3	46097300	50kΩ x 2 Volume, treble
jVR4	46097300	50kΩ x 2 Volume, bass
jVR5	46097200	20kΩ x 2 Volume, super bass

3-13. F-3564 Speaker Terminal Circuit Board

Component Side

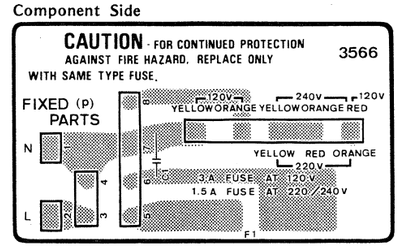


Parts List

Parts No.	Stock No.	Description
	07183300	8P Terminal Board, speaker

3-14. F-3566 Voltage Selector Circuit Board

Component Side

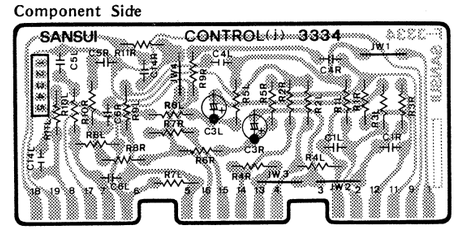


Parts List

Parts No.	Stock No.	Description
pC1	00386100	4700pF 150V C.C.
pF1	07188800	Fuse 3.0A 125V
	07188500	Fuse 1.5A 125V
	23102200	Fuse Holder

3-15. F-3334 Tone Circuit Board

Component Side



Parts List

Parts No.	Stock No.	Description
jC5	07216800	68000pF 25V C.C.

● Abbreviations

C.R.	Carbon Resistor	E.L.	Low Leak Electrolytic Capacitor
S.R.	Solid Resistor	E.B.	Bi-Polar Electrolytic Capacitor
Ce.R.	Cement Resistor	E.BL.	Low Leak Bi-Polar Electrolytic Capacitor
M.R.	Metal Film Resistor	Ta.C.	Tantalum Capacitor
F.R.	Fusing Resistor	F.C.	Film Capacitor
N.I.R.	Non-Inflammable Resistor	M.P.	Metalized Paper Capacitor
C.C.	Ceramic Capacitor	P.C.	Polystyrene Capacitor
C.T.	Ceramic Capacitor, Temperature Compensation	G.C.	Gimmic Capacitor
E.C.	Electrolytic Capacitor		

* La présention et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
* Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.
* Design and specifications subject to change without notice for improvement.

4. SCHEMATIC DIAGRAM 4-1. Tuner Section

FM Signal Line
AM Signal Line

INDICATOR

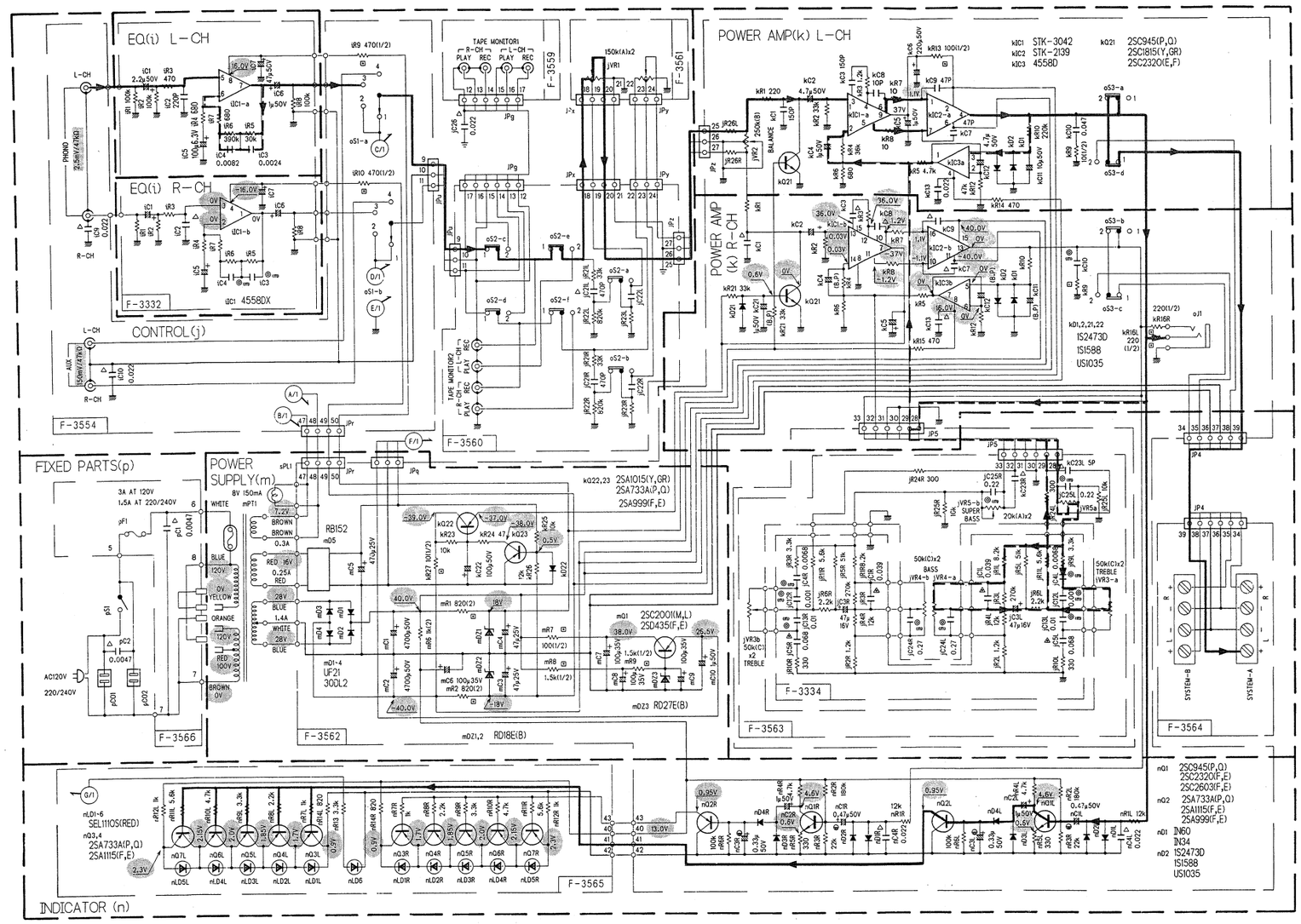
sLD13 (F-3555)	PRESET STATION 1	RED
sLD12 (F-3555)	PRESET STATION 2	RED
sLD11 (F-3555)	PRESET STATION 3	RED
sLD10 (F-3555)	PRESET STATION 4	RED
sLD9 (F-3555)	PRESET STATION 5	RED
sLD8 (F-3555)	PRESET STATION 6	RED
sLD7 (F-3555)	MEMORY	UMBER
sLD3 (F-3565)	SIGNAL 1	YELLOW
sLD4 (F-3565)	SIGNAL 2	YELLOW
sLD5 (F-3565)	SIGNAL 3	YELLOW
sLD2 (F-3565)	FM LOCK	UMBER
sLD1 (F-3565)	STEREO	RED

SWITCHES & CONTROL

sS4 (F-3558)	FM/MODE	1. AUTO TUNING / STEREO / MUTING ON 2. MANUAL TUNING / MONO / MUTING OFF
sS8 (F-3557)	TUNING DOWN	PUSH ON
sS9 (F-3557)	TUNING UP	PUSH ON
sS7 (F-3555)	PRESET STATION 1	PUSH ON
sS6 (F-3555)	PRESET STATION 2	PUSH ON
sS5 (F-3555)	PRESET STATION 3	PUSH ON
sS4 (F-3555)	PRESET STATION 4	PUSH ON
sS3 (F-3555)	PRESET STATION 5	PUSH ON
sS2 (F-3555)	PRESET STATION 6	PUSH ON
sS1 (F-3555)	MEMORY	PUSH ON
sS5 (F-3556)	AM CH (EXPORT Model Only)	1. 9k (FM 50k) 2. 10k (FM 100k)

2SA733 2SA999 2SA1015 2SC945 2SC1674 2SC1815 2SC2001 2SC2320 2SC2786 2SC2878 — 2SD313AL
2SA1115 2SC668 2SC2603 — 2SK117 2SK163
1N60 1S1588 1S2473D 30DL2 US1035 — RD5.1E RD13E RD18E RD27E — UF21
RB152
KV1226
STK2139
TD6104P NJM4558D
μPC1161C μPC1208 MSM4050RS HA1197
TC9140P
TD6301P
STK3042

4-2. Audio Section



SYMBOL
△ Ceramic
△T Ceramic(Temperature Compensation)
◒ Low-Leak Electrolytic
(B,P) Bi-Polar Electrolytic
◒B,m Low-Leak Bi-Polar Electrolytic
(Ta) Tantalum Electrolytic
◎ Film
◎M Mylar
◎P,m Polycarbonate
◎P,P Polypropylene
⊗ Polystyrene
⊗ Metalized Paper
▲ Gimmic
▲ Barrier Layer Capacitor
⊡ Fusing Resistor
⊡ Non-Inflammable Resistor
■ Metal Film Resistor
□ Cement Resistor
◪ Non-Inductive Cement Resistor

SYMBOL OF FUNCTION

FM(d)
AM(e)
OSC(f)
MIC(g)
MC(h)
EQ(i)
CONTROL(j)
POWER AMP(k)
PROTECTOR(ℓ)
POWER SUPPLY(m)
INDICATOR(n)
SELECTOR(o)
FIXED PARTS(p)
RF INDICATOR(s)

RESISTORS
Are in ohms,1/4Watts,±5%Tolerance
Unless Otherwise Noted.k:kΩ,M:MΩ
CAPACITORS
Are in μF,Unless Otherwise Noted.P:pF
TOLERANCE
J:±5%,G:±2%,F:±1%
Each D.C.Voltage shows the nominal value in volts at no input signal.

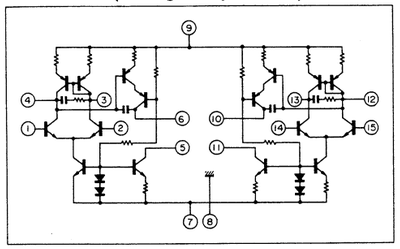
SWITCHES & CONTROL

pS1	POWER	
oS1a-d (F-3554)	SELECTOR	1. AM 2. FM 3. PHONO 4. AUX
oS2c,d (F-3560)	TAPE MONITOR 1	1. SOURCE 2. TAPE-1 , ▶ COPY(TAPE-2)
oS2e,f (F-3560)	TAPE MONITOR 2	1. SOURCE 2. TAPE-2
oS2a,b (F-3560)	LOUDNESS	1. OFF 2. ON
oS3a,b (F-3562)	SPEAKERS	1. ON 2. OFF
oS3c,d (F-3562)	SPEAKERS	1. A 2. B
jVR1 (F-3561)	VOLUME	
jVR2 (F-3562)	BALANCE	
jVR3 (F-3563)	TREBLE	
jVR4 (F-3563)	BASS	
jVR5 (F-3563)	SUPER BASS	

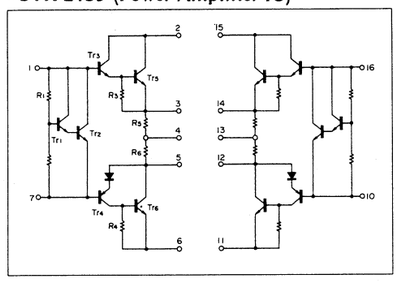
INDICATOR

nLD6 (F-3565)	POWER	RED
nLD1-5 (F-3565)	PEAK LEVEL	RED

● STK-3042 (Voltage Amplifier IC)

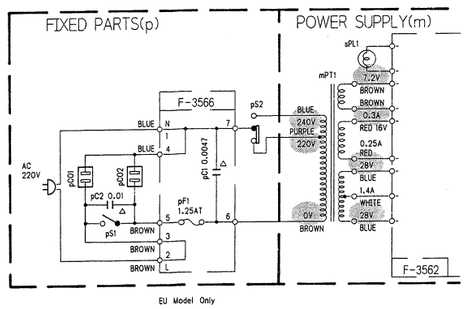


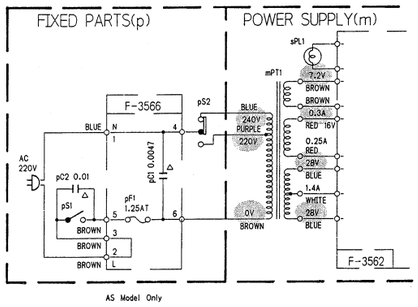
● STK-2139 (Power Amplifier IC)

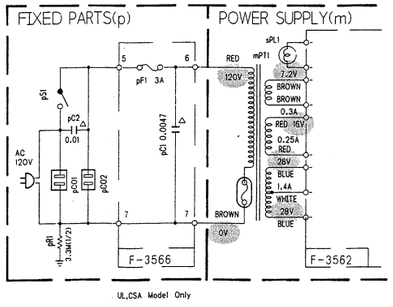


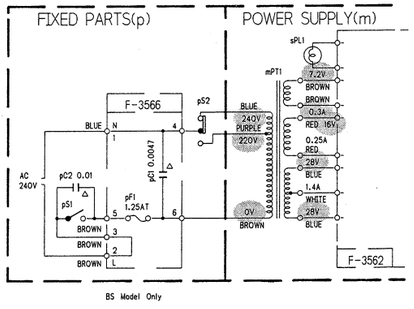
Signal Line

N.F.B Loop Line



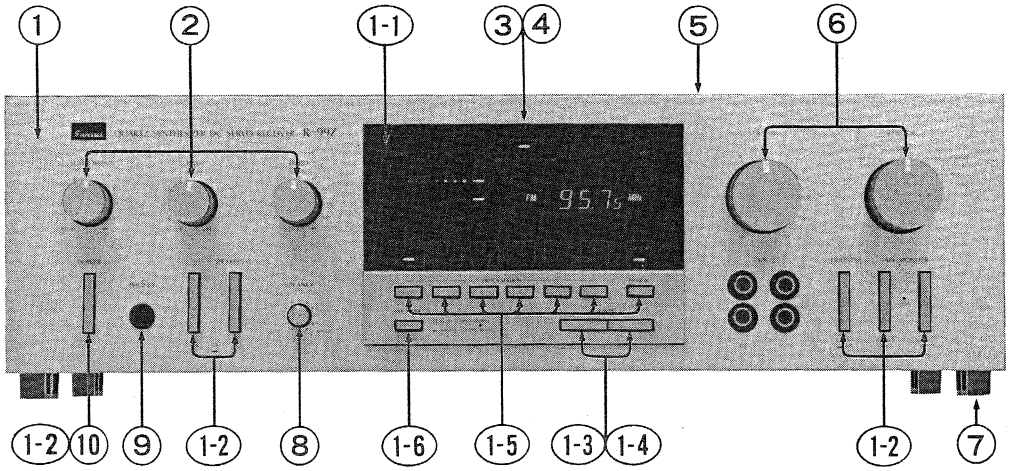




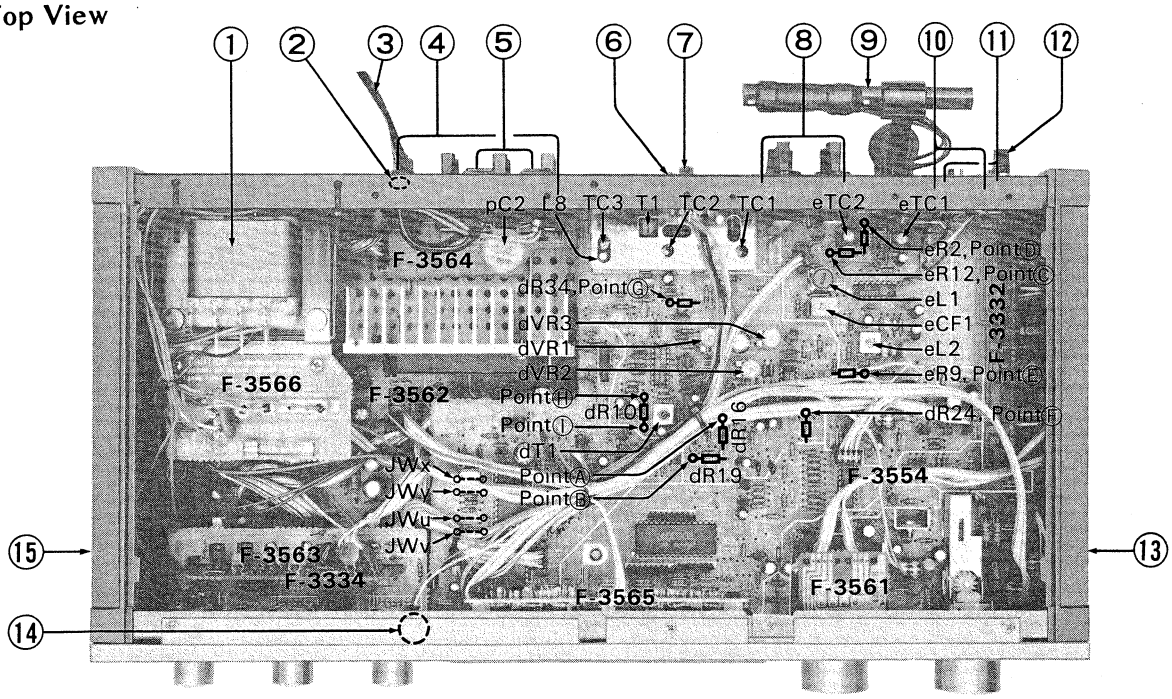


5. OTHER PARTS

5-1. Front View



5-2. Top View



Parts List <Front View>

Parts No.	Stock No.	Description
1	07743500	Front Panel Ass'y
1-1	07742600	Dial Glass
1-2	07580300	Push Knob, speakers, loudness, tape monitor
1-3	07564200	Knob, tuning up, down
1-4	07564300	Knob Guide
1-5	07744700	Knob Ass'y, preset station
1-6	07553800	Push Knob Ass'y, FM/mode
2	07777600	Knob, treble, bass, super bass
3	07742400	Digital Scale
4	07742700	Masking Sheet
5	07601300	Bonnet
6	07743400	Knob, volume, selector
7	07601200	Leg
8	07614300	Knob, balance
9	46096600	Phone Jack
10	46087300	Push Switch, power

Parts List <Top View>

Parts No.	Stock No.	Description
1	15004101	Power Transformer
2	39106000	Strain Relief
3	38004700	Power Cord
4	07183300	Speaker Terminal
5	07189600	AC Outlet
6	07563320	Battery Case Ass'y
7	11102800	AM Channel Switch
8	22902600	4P Terminal, antenna
9	07236900	Bar Antenna
10	07249100	4P Terminal, tape 1
11	07249100	4P Terminal, aux, phono
12	07759400	Ground Terminal
13	07602010	Side Panel (R)
14	07261100	Pilot Lamp 8V 150mA
15	07601910	Side Panel (L)
pC2	00386100	0.0047μF 150V C.C.

6. NOTES

6-1. Notice when the user moves from 9 kHz to 10 kHz step area, or vice versa, in AM broadcasting frequency.

AM programs are being broadcast under channel plans which, depending on the broadcasting area in the world, are characterized by different channels (frequency intervals) between broadcasting stations. In North, South, and Central America, this channel is 10 kHz whereas in the rest of these areas, it is 9 kHz.
This unit is a synthesizer tuner which varies the reception frequency at each 9 kHz or 10 kHz channel (frequency interval) during auto search reception. If the client uses the unit in an area with a different channel plan, he may not be able to receive AM stations. The unit he has purchased has been originally adjusted to the channel in his area. It is therefore necessary to change over the channel setting if he moves to an area with a different channel plan.
It is impossible to receive AM broadcasting in Automatic Tuning operation. In this case, use the AM 9 kHz/10 kHz selection switch (oS2) installed on the rear panel, in accordance with Table 6-1.
If no switch oS2 is installed, change the position where the Jamper Wire (JWu) is connected.

6-2. Notice when the user moves from 50 kHz to 100 kHz step area, or vice versa, in FM broadcasting frequency.

In this case, change the positions where the Parts is connected on the circuit board F-3554, in accordance with Table 6-2.
(In most of countries, frequency-step between two FM stations is every 100 kHz, but in some areas of Europe, it is 50 kHz asides.)

● Table 6-1

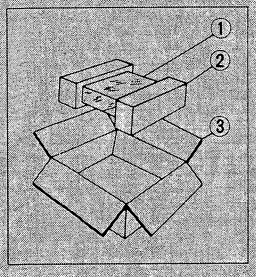
Parts	10 kHz frequency step	9 kHz frequency step
Switch, oS2	Set 10 kHz	Set 9 kHz
JWu	Remove the Jamper Wire	Connect the Jamper Wire

● Table 6-2

Parts	100 kHz frequency step	50 kHz frequency step
sQ4	Remove the Parts	Connect the Parts
Switch oS2	Set 10 kHz	Set 9 kHz
JWu	Remove the Jamper Wire	Connect the Jamper Wire

7. PACKING LIST

Parts No.	Stock No.	Description
1	91263810	Vinyl Bag
2	07641000	Styrofoam Packing
3	07745400	Carton Case



8. ACCESSORY LIST

	Stock No.	Description
	46094300	Operating Instruction
	46051700	FM Antenna
	———	Dry Battery x 2

Sansui

SANSUI ELECTRIC COMPANY LTD.: 14-1, Izumi 2-chome, Suginami-ku, Tokyo 168 Japan PHONE:(03) 323-1111/TELEX 232-2076
SANSUI ELECTRONICS CORPORATION: 1250 Valley Brook Ave. Lyndhurst, N.J. 07071 U.S.A.
333 West Alondra Blvd. Gardena, California 90247 U.S.A.
3036 Koapaka St. Honolulu, Hawaii 96819 U.S.A.
SANSUI ELECTRONICS (U.K.) LTD.: Unit 10A, Lyon Industrial Estate, Rockware Avenue, Greenford, Middx UB6, OAA, England
SANSUI ELECTRONICS G.M.B.H.: Arabella center, 6 Frankfurt AM Main, Lyoner Strasse 44-48, West Germany

(SM1-22) Printed in Japan (610830M)<Stock No. 36459200>